



Septarian

In December 2003, during the restoration of the vineyard and the wine route near Jarenina in Slovenske Gorice, earthworks uncovered Miocene septaria (approximately 15 million years old) measuring up to two metres in diameter and richly mineralised with barite and calcite. These two minerals form crystals that can reach several centimetres across. Due to their size and rare mineral paragenesis, the septaria from this site are considered a rarity on a global scale.

Aware of the unique find in Slovenia and globally, they made sure that some of the septaria were preserved. One of these rarities now lies before you, cut in half and polished so that you can better observe the structure and mineralisation of the septarian.

The word septarian (Latin septarium in singular and septaria in plural) comes from the Latin verb seipere, meaning to divide into parts or to separate with walls or partitions. The inside of the septaria is structured as though it were comprised of several parts separated by cracks or partitions of crystallised minerals. Septaria are not a rare phenomenon and several sites are known around the globe. They usually range from a few centimetres to half a meter in diameter. Septaria with a diameter of one or two metres are very rare and there are only a handful of sites in the world.

Septaria are spherical shapes whose composition differs from their sedimentary surroundings. There are several theories on the origin of septaria. One of the assumptions is that they were formed in marine sediments. Sediments, including the remains of living organisms, fall to the bottom of the sea. In this process, called diagenesis, sedimentary rocks are formed. Colonies of anaerobic bacteria grow on the dead organisms at the bottom of the sea where there is no oxygen. Ammonia-filled bacteria excrements increased the water's pH level and the mud saturated the colonies. This caused an absence of carbonates in the sea water. This change spreads equally on all sides, causing the minerals in the sediment to crystallise, hence shaping a spherical mass. When the minerals crystallise within the mass, mineral sediments flow from the sedimentary surroundings towards the interior of the mass, where they are eliminated from the system, causing cementation of the rock in the mass.

No alternative treatment should be a substitute for diseases that require medical treatment. Alternative forms are used only complementary.

The cementation results in cracks due to shrinkage. Such cracks offer sufficient room for the growth of crystals. If the crystallisation process lasts long enough and if there is enough crystallising matter, the cracks fill completely with crystal. If this process is shorter, the cracks contain nicely shaped crystals. Under favourable conditions, the process of the formation of a septarian and the crystallisation of minerals in its cracks can take several million years. Once the sea withdraws and the sediment begins to dry, the conditions for the inflow of mineral solutions deteriorate and crystallisation ends. Under the weight of sedimentary layers, the septaria can additionally crack and flatten.

Healing with Septaria

Enjoy the energy of septaria and stay relaxed and under the positive influence of our services.

Septaria are a special feature of the Thermalium Wellness Centre. Their energy and positive effects additionally contribute to our well-being. It is recommended that you visit the rest lounge with septarian nodules after every service, as this enhances the effect and impact of the service on the whole body.

With their energy, septaria help to heal the body naturally:

- ▶ they strengthen the immune system,
- ▶ they reduce swelling and activate self-healing,
- ▶ they help skin regenerate better,
- ▶ they contribute to better regeneration of bone tissue and to the alleviation
- ▶ of muscle spasms,
- ▶ they have a favourable effect on rheumatism,
- ▶ they have a beneficial effect on the heart, encouraging the right rhythm,
- ▶ their energy soothes and establishes mental and physical equilibrium,
- ▶ they improve your sleep pattern, strengthen your confidence and memory, and boost concentration.

For more information on using the rest lounge, please contact our staff at the Thermalium reception desk.